

MAR 18 2002  
PATENT & TRADEMARK OFFICE 96  
THE UNITED STATES PATENT AND TRADEMARK OFFICE

2664  
2699  
PATENT

In re Application of:

**John C. Harvey and James W. Cuddihy:**

Serial No.: 08/469,612

Group Art Unit: 2699

Filed: June 6, 1995

Examiner: FAILE, A.

For: **SIGNAL PROCESSING APPARATUS  
AND METHODS**

Atty. Docket: 05634.0280

**TRANSMITTAL LETTER**

Assistant Commissioner of Patents  
Washington, D.C. 20231

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Information Disclosure Statement;  
 PTO FORM 1449  
 A fee of \$180.00 is required, and is calculated as shown below:

(Col 1)	(Col 2)	(Col 3)		
Claims Remaining After Amendment	Highest No. Previously Paid for	Present Extra	Rate	Additional Fee
Total	*	Minus **	=0	x \$ 18.00 \$0.00
Indep.	*	Minus ***	=0	x \$ 78.00 \$0.00
First Presentation of Mult. Dep. Claim			x \$ 260.00	\$0.00
Fee under 37 C.F.R. § 1.17(p).				\$180.00
<b>Total Fee Enclosed</b>				<b>\$180.00</b>

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.  
\*\* If the "Highest Number Previously Paid For" in this space is less than 20, write "20" in this space.  
\*\*\* If the "Highest Number Previously Paid For" in this space is less than 3, write "3" in this space. "The Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

**HUNTON & WILLIAMS** check no. 2050770 in the amount of \$180.00 is enclosed.

The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 50-0206.

Any filing fees under 37 CFR 1.16 for the presentation of extra claims.  
 Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

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Thomas J. Scott, Jr.

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Washington, D.C. 20006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John C. Harvey and  
James W. Cuddihy  
Serial No. : 08/469,612  
Docket No. : 5634.0280  
Filed : June 6, 1995  
For : SIGNAL PROCESSING APPARATUS AND METHODS  
Group Art Unit : 2699  
Examiner : FAILE, A. RECEI

**Box: FEE-AMENDMENT**

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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir.

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

## I. Description of the References

The references identified in this Supplemental Information Disclosure Statement (“Supplemental IDS”) can be grouped into three categories. *First*, there are references identified in this Supplemental IDS that were cited to the PTO in connection with related applications, but were not cited in the instant application due to applicants’ asserted

priority date of November 3, 1981. Applicants are now citing these references because the Examiner has challenged applicants' November 3, 1981 priority date. Applicants maintain, however, that this application is entitled to the benefit of the challenged November 3, 1981 filing date.

*Second*, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

*Third*, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

## **II. Description of Corrections**

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application

number. The correct identification of this reference is publication number FR 2,417,226.

- With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified. Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.
- In the concise explanation previously provided for foreign reference DE 2,338,330, this reference was misidentified. The correct patent number for this German reference is DE 2,338,380.
- Applicants discovered that they inadvertently filed an Information Disclosure Statement filed on April 5, 1996 in this application that was missing certain pages. The references on those missing pages that should have been filed on April 5, 1996 are included on this Supplemental IDS.

### **III. Concise Explanations of Foreign Language References**

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS. Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

#### IV. Conclusion

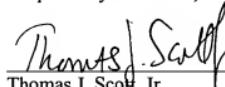
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS because applicants have previously provided copies of all of the references cited herein in related applications.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

Submitted herewith is a check in the amount of \$180.00 to cover the fee for filing this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.17(p). Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 18, 2002  
**HUNTON & WILLIAMS**  
1900 K Street, N.W.  
Washington, DC 20006

Respectfully submitted,

  
\_\_\_\_\_  
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APPENDIX A

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO YES
1/AH/ 20,242	12/10/80	EPO	G09G 1/16	X
46,108	02/17/82	EPO	H04N 5/76	X
49,184	04/07/82	EPO	G09B 7/08	X
53,984**		Japan		X
55,167	06/30/82	EPO	G09G 1/16	X
55,674	07/07/82	EPO	07/07/82	
56,649	07/28/82	EPO	H04N 5/44	
481,565	04/29/76	Australia		
77,712	04/27/83	EPO	H04N 7/00	X
78,185	05/04/83	EPO	H04N 7/00	X
103,438	03/21/84	EPO	H04N 7/10	
128,481	12/19/84	EPO	H04N 7/00	
132,007	01/23/85	EPO	H04N 7/16	
133,985	03/13/85	EPO	H 04 N 7/087	
152,251	08/21/85	EPO	H04H ½	
187,417	07/16/86	EPO	H04 N 7/087	
206,821	12/30/86	EPO	H04N 7/00	
217,308	04/08/87	EPO	H04M 11/00	
857,862	1/61	Great Britain	40 (1)	
959,274	05/27/64	Great Britain		
1,066,931	04/26/67	Great Britain	G 07c	
1,189,612	06/25/85	Canada	Ho4n 7/08	
1,204,190	09/03/70	Great Britain		
1,213,357	11/25/70	Great Britain		
1,216,977	01/20/87	Canada	HO4M 11/00	
1,370,535	10/16/74	Great Britain	G09G1/16	
1,396,981	06/11/75	Great Britain	H04H 1/00	
1,515,309	06/21/78	Great Britain	G06 K 15/20	
1,523,307	08/31/78	Great Britain	H03K 5/08	
1,543,502	04/04/79	Great Britain	G08B9/00	
1,554,411	10/17/79	Great Britain	H04b 3/54	
1,556,366	11/21/79	Great Britain		
1,582,563	01/14/81	Great Britain	G08B9/00	
1,584,111	02/04/81	Great Britain	G08B9/00	
2,016,874	02/01/79	Great Britain		
2,033,699	05/21/80	Great Britain	H04L 1/10, 1/40	
1/AH/ 2,034,995	06/11/80	Great Britain	H03J 7/18, 5/00	

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO YES
2,051,527	01/14/81	Great Britain	G06F 3/153	
2,058,681	06/15/72	Germany	H04N 7/08	X
2,067,379	07/22/81	Great Britain	H04L 1/24	
2,081,948	02/24/82	Great Britain	H04Q 9/00	
2,090,504	07/07/82	Great Britain	H04N 3/16	
2,103,455	02/16/83	Great Britain	H04N 1/00 7/12	
2,126,002	03/14/84	Great Britain	G11B 15/02	
2,140,963	12/05/84	Great Britain		
2,141,897	01/03/85	Great Britain	H04N 7/16	
2,164,229	03/12/86	Great Britain		
2,167,917	06/04/86	Great Britain		
2,185,670	07/22/87	Great Britain	H04N 7/087	
2,338,380	02/13/75	Germany		X
2,356,969	05/22/75	Germany		X
2,417,226	02/01/79	France		X
2,453,441	05/13/76	Germany	H04L 9/00	X
2,496,376	06/18/82	France	H04N 7/00	X
2,516,733	05/05/83	France	H04N 7/00	X
2,550,624	05/26/77	Germany		X
2,823,175	11/29/79	Germany	G06F 3/12	X
2,831,014	04/03/80	Germany		X
2,853,764	01/29/81	Germany		X
2,904,891	08/16/79	Germany		X
2,918,846	11/13/80	Germany	F26B 12/02	X
3,020,787	12/17/81	Germany	H04N 7/08	X
3,039,949	05/06/82	Germany	H04M 3/42	X
3,112,249	10/07/82	Germany	G09G 1/28	X
3,143,627	05/11/83	Germany		X
3,337,204	04/25/85	Germany	H04N 5/44	X
53-068124	06/17/78	Japan		X
53-11515	02/02/78	Japan		X
53-121420	10/23/78	Japan		X
55-028691	02/29/80	Japan		X
55-26792	02/26/80	Japan		X
55-49084	04/08/80	Japan		X
55-500886	10/30/80	Japan		X
55-79585	06/16/80	Japan		X
56-47179	04/28/81	Japan		X
56-51161	05/08/81	Japan		X
57-199377	12/07/82	Japan		X
58-156279	09/17/83	Japan		X

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
58-209276	12/06/83	Japan			X
59-154886	09/03/84	Japan			X
59-160387	09/11/84	Japan	H04N 7/10		X
59-224988	12/17/84	Japan			X
59-501340	03/23/84	Japan		X	
60-123182	07/01/85	Japan			X
60-146587	08/02/85	Japan		X	
60-149281	08/06/85	Japan		X	
60-256289	12/17/85	Japan	H04N 7/173		X
60-61935	04/09/85	Japan	G11B15/02	X	
61-148988	07/07/86	Japan	H04N 7/173		X
61-174889	08/06/86	Japan		X	
61-20441	01/29/86	Japan		X	
61-267474	11/27/86	Japan		X	
61-50470	03/12/86	Japan	H04N 5/44	X	
PL 204,525	02/09/78	Poland		X	
WO 80/00292	02/21/80	PCT Appl.	H04N9/16	X	
WO 80/02093	10/02/80	PCT Appl.	H04B 1/20		
WO 80/02901	12/24/80	PCT Appl.	H04N 7/16	X	
WO 81/02961	10/15/81	PCT Appl.	H04N 7/16, 7/04		
WO 83/00789	03/03/83	PCT Appl.	H04N 7/08	X	
WO 85/03604	08/15/85	PCT Appl.	H03K 3/84		
WO 85/03830	08/29/85	PCT Appl.	H04N 7/16		
WO 87/04884	08/13/87	PCT Appl.	H04M 11/08		

\*\* Japanese reference 53,984 to Jinno was cited by the Examiner in Application No. 08/470,447. The Examiner did not supply a publication date and applicants have been unable to determine a publication date for this reference.

APPENDIX B

**Concise Explanations for Foreign References**

**JP 61-174889      August 6, 1986      Japan**

Foreign language patent JP 61-174889 came to applicants' attention during the prosecution of applicants' applications pending in Japan.

**FR 2,417,226      February 1, 1979      France  
PL 204,525      February 9, 1978      Poland**

The French reference 2,417,226 and Polish reference PL 204,525 are both applications filed by Zaboklicki. The PTO has cited the German application filed by Zaboklicki which claims priority to the Polish Zaboklicki application. Translations of the German Zaboklicki application have been provided to the Examiner.

**DE 2,831,014      April 3, 1980      Germany**

The German reference DE 2,831,014 was applied by the Examiner in the September 4, 2001 Office Action in Application No. 08/487,526.

**JP 55-26792      February 26, 1980      Japan**

The Japanese reference JP 55-26792 was applied by the Examiner in the August 27, 2001 Office Action in Application No. 08/470,571.

**WO 80/02901      December 24, 1980      France**

The WO 80/02901 reference discloses a television system with a double key encryption service for subscription television.

**DE 3,337,204      April 3, 1980      Germany**

German reference DE 3,337,204 discloses a viewer interactive program schedule.

The following Japanese references were identified on applicants' on May 11, 2001 IDS, but explanations were unintentionally not provided. All of these applications came to applicants' attention during the prosecution of applicants' applications pending in Japan.

JP 53-11515	February 2, 1978	Japan
JP 53-121420	October 23, 1978	Japan
JP 55-500886	October 30, 1980	Japan
JP 59-501340	March 23, 1984	Japan
JP 60-146587	September 2, 1985	Japan
JP 61-20441	January 29, 1986	Japan
JP 61-267474	November 27, 1986	Japan

The following references were cited on PTO form 892 by the Examiners in applicants related pending applications.

JP 58-156279	September 17, 1983	Japan
JP 55-79585	June 16, 1980	Japan

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

## CITATION FORM

U. S. PATENT AND TRADEMARK OFFICE  
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2008

Attorney Docket No.

05634.0280

Serial No.

08/469,612

Applicant(s)

John C. Harvey and James W. Cuddihy

Filing Date

June 6, 1995

Group Art Unit

2699

## UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
/AH/	1,992,271	02/26/35	Williams		09/17/31
	2,046,381	07/07/36	Hicks et al.	12/10/30	
	2,192,217	03/05/40	Bellamy, et al.	07/15/29	
	2,217,881	10/15/40	Allen		02/18/32
	2,236,077	03/25/41	Smith		05/29/30
	2,264,563	12/02/41	Bumstead		01/02/32
	2,570,209	10/09/51	Cotsworth, III	05/01/48	
	2,855,993	10/14/58	Rahmel	358/84	03/19/54
	2,995,624	08/08/61	Watters		03/11/59
	3,011,153	11/28/61	Haselton et al.	05/23/56	
	3,029,308	04/10/62	Adler et al.	09/22/58	
	3,082,402	03/19/63	Scantlin		05/10/60
	3,366,731	01/30/68	Wallerstein	08/11/67	
	3,612,752	10/12/71	Banning, Jr.	178/5.1	06/22/66
	3,764,983	10/09/73	Stok	340/150	05/03/72
	3,778,058	12/11/73	Rausch	463/3	06/17/71
	3,778,721	12/11/73	Moran	325/396	09/08/72
	4,035,838	07/12/77	Bassani et al.	358/86	03/16/76
	4,059,729	11/22/77	Eddy et al.	179/15 BF	06/09/76
	4,061,879	12/06/77	Wintzer	179/15 BA	09/29/75
	4,162,483	07/24/79	Entenman	340/147 R	04/01/77
	4,199,791	04/22/80	Corey	360/69	04/17/78
	4,225,918	09/30/80	Beadle et al.	364/200	03/09/77
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
	4,338,643	07/06/82	Tadokoro	360/135	
	4,365,249	12/21/82	Tabata	340/825.3	09/29/80
	4,369,333	01/18/83	Gemperle et al.	178/22.13	
	4,383,273	05/10/83	Lunn	348/725	12/29/80
	4,386,416	05/31/83	Giltner et al.	364/900	06/02/80
	4,405,946	09/20/83	Knight	358/192.1	
	4,410,911	10/18/83	Field et al.	358/121	
	4,412,244	10/25/83	Shanley, II	358/22	
	4,414,516	11/08/83	Howard	333/21A	
	4,425,664	01/10/84	Sherman et al.	375/8	
	4,426,698	01/17/84	Pargee, Jr.	371/37	08/24/81
	4,429,385	01/31/84	Cichelli et al.	370/92	
	4,433,211	02/21/84	McCalmont et al.	179/1.5 S	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
/AH/	4,439,785	03/27/84	Leonard	358/120	
	4,449,249	05/15/84	Price	455/45	
	4,450,442	05/22/84	Tanaka	340/814	
	4,451,700	05/29/84	Kempner et al.	179/2 AS	
	4,454,543	06/12/84	Lund et al.	358/118	
	4,454,594	06/12/84	Heffron et al.	364/900	
	4,456,925	06/26/84	Skerlos et al.	358/86	
	4,458,109	07/03/84	Mueller-Schloer	178/22.11	
	4,458,268	07/03/84	Ciciora	358/122	
	4,458,315	07/03/84	Uchenick	364/200	
	4,460,922	07/17/84	Ensinger et al.	358/122	
	4,462,076	07/24/84	Smith, III	364/200	
	4,462,076	07/24/84	Ross	364/300	
	4,475,189	10/02/84	Kihara et al.	364/145	
	4,475,189	10/02/84	Herr et al.	370/60	
	4,476,573	10/16/84	Duckeck	455/45	
	4,477,830	10/16/84	Lindman et al.	358/1	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,217	11/20/84	Block et al.	358/84	
	4,486,773	12/04/84	Okubo	358/84	
	4,488,289	12/04/84	Turner	370/60	
	4,489,220	12/04/84	Oliver	179/2 AM	
	4,491,945	01/01/85	Turner	370/60	
	4,494,142	01/15/85	Mistry	358/118	
	4,494,156	01/15/85	Kadison et al.	360/48	
	4,494,230	01/15/85	Turner	370/60	
	4,495,623	01/22/85	George et al.	371/38	09/02/82
	4,495,654	01/22/85	Deiss	455/151	
	4,496,171	01/29/85	Cherry	283/61	
	4,496,975	01/29/85	Noirel	358/147	
	4,496,976	01/29/85	Swanson et al.	358/147	
	4,498,098	02/05/85	Stell	358/22	
	4,503,287	03/05/85	Morris et al.	178/22.08	
	4,503,538	03/05/85	Fritz	371/28	
	4,507,680	03/05/85	Freeman	358/86	
	4,509,073	04/02/85	Baran et al.	358/86	
	4,510,623	04/09/85	Bonneau et al.	455/181	
	4,512,011	04/16/85	Turner	370/60	
▼	4,513,324	04/23/85	Poetsch et al.	358/214	
/AH/	4,520,392	05/28/85	Cox et al.	358/147	

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
/AH/	4,520,404	05/28/85	Von Kohorn	358/335	
	4,521,806	06/04/85	Abraham	358/86	
	4,527,194	07/02/85	Sirazi	358/86	
	4,531,020	07/23/85	Wechselberger et al.	178/22.08	
	4,532,540	07/30/85	Wine	358/12	03/28/83
	4,532,547	07/30/85	Bennett	358/136	
	4,533,948	09/06/85	McNamara et al.	358/122	
	4,533,949	09/06/85	Fujimura et al.	358/122	
	4,535,355	08/13/85	Arn et al.	358/123	
	4,538,174	08/27/85	Gargini et al.	358/86	
	4,539,676	09/03/85	Lucas	370/60	
	4,540,849	09/10/85	Oliver	179/2 AM	
	4,543,616	09/24/85	Brooks	358/335	
	4,544,963	10/01/85	Jacoby et al.	360/40	
	4,546,382	10/19/85	McKenna et al.	358/84	
	4,546,387	10/08/85	Glaab	358/186	
	4,547,804	10/15/85	Greenberg	358/142	03/28/83
	4,550,407	10/29/85	Couasnon et al.	371/29	
	4,553,252	11/12/85	Egendorf	377/15	
	4,554,418	11/19/85	Toy	179/2 DP	
	4,554,584	11/19/85	Elam et al.	358/136	
	4,558,464	12/10/85	O'Brien, Jr.	455/4	
	4,562,306	12/31/85	Chou et al.	178/22.08	
	4,562,465	12/31/85	Glaab	358/120	
	4,562,495	12/31/85	Bond et al.	360/78	
	4,563,702	01/07/86	Heller et al.	358/119	
	4,566,034	01/21/86	Harger et al.	358/194.1	
	4,567,512	01/21/86	Abraham	358/86	
	4,570,930	02/18/86	Matheson	273/1 E	
	4,573,072	02/25/86	Freeman	358/86	
	4,573,151	02/25/86	Jotwani	370/56	
	4,574,305	03/04/86	Campbell et al.	358/86	
	4,575,750	03/11/86	Callahan	358/86	
	4,577,289	09/16/86	Comerford et al.	364/900	
	4,578,536	03/25/86	Oliver et al.	179/2 AM	
	4,578,718	03/25/86	Parker et al.	360/10.3	
	4,580,165	04/01/86	Patton et al.	358/148	
	4,583,128	04/15/86	Anderson, Jr. et al.	358/302	
V	4,584,641	04/22/86	Guglielmino	364/200	
/AH/	4,586,134	04/29/86	Norstedt	364/200	

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/AH/	4,588,991	05/13/86	Atalla	340/825.31	
	4,589,064	06/03/86	Chiba et al.	364/200	
	4,590,516	05/20/86	Abraham	358/86	
	4,591,248	06/24/86	Freeman	352/133	
	4,591,664	05/27/86	Freeman	179/6.06	
	4,591,906	05/27/86	Morales-Garza et al.	358/84	
	4,592,546	06/03/86	Fascenda et al.	273/1 E	
	4,593,376	06/03/86	Volk	364/900	
	4,594,609	07/15/86	Romao et al.	358/119	
	4,595,950	06/17/86	Lofberg	358/122	
	4,595,951	06/17/86	Filliman	358/147	
	4,595,952	06/17/86	Filliman	358/47	
	4,596,021	06/17/86	Carter et al.	375/5	
	4,597,058	06/24/86	Izumi et al.	364/900	
	4,599,611	07/22/86	Bowker et al.	340/721	
	4,599,647	07/22/86	George et al.	358/122	
	4,600,918	07/15/86	Belisomi et al.	340/711	
	4,600,921	07/15/86	Thomas	340/825.31	
	4,602,279	07/22/86	Freeman	358/86	
	4,603,232	07/29/86	Kurland et al.	179/2 AS	
	4,605,964	08/12/86	Chard	358/147	
	4,605,973	08/12/86	Von Kohorn	358/335	
	4,608,456	08/26/86	Paik et al.	179/1.5 S	
	4,613,901	09/20/86	Gilhousen et al.	358/122	
	4,614,972	09/30/86	Motsch et al.	358/147	
	4,616,262	10/07/86	Toriumi et al.	358/183	
	4,616,263	10/07/86	Eichelberger	358/185	
	4,620,224	10/28/86	Lee et al.	358/119	
	4,620,224	06/24/86	Levin et al.	358/147	
	4,620,229	10/28/86	Amano et al.	358/194.1	
	4,621,259	11/04/86	Schepers et al.	340/707	
	4,621,285	11/04/86	Schilling et al.	358/122	
	4,623,920	11/18/86	Dufresne et al.	358/122	01/20/83
	4,626,892	12/02/86	Nortrup et al.	358/21 R	
	4,626,909	12/02/86	Oniki et al.	358/114	
	4,630,108	12/16/86	Gomersall	358/84	
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	4,633,297	12/30/96	Skerlos et al.	358/22	
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/AH/	4,634,808	01/06/87	Moerder	178/22.14	

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/AH/	4,635,121	01/06/87	Hoffman et al.	358/188	
	4,636,858	08/18/87	Hague et al.	358/147	
	4,638,181	01/20/87	Deiss	307/243	
	4,638,357	01/27/87	Heimbach	358/121	
	4,638,359	01/27/87	Watson	358/147	
	4,639,779	01/27/87	Greenberg	358/142	
	4,639,890	01/27/87	Heilveil et al.	364/900	
	4,641,205	02/03/87	Beyers, Jr.	360/33.1	
	4,641,253	02/03/87	Mastran	364/328	
	4,641,307	02/03/87	Russell	370/60	
	4,644,396	02/17/87	Iwasaki	380/6	05/24/85
	4,646,075	02/24/87	Andrews et al.	340/747	
	4,647,964	09/08/87	Weinblatt	358/84	
	4,649,533	08/10/87	Chorley et al.	370/68	
	4,656,629	01/27/87	Kondoh et al.	370/60	
	4,658,093	08/18/87	Hellman	380/20	
	4,658,290	08/18/87	McKenna	358/84	
	4,663,735	05/05/87	Novak et al.	364/900	
	4,677,434	06/30/87	Fascenda	380/20	
	4,677,466	06/30/87	Lert, Jr. et al.	358/84	
	4,677,611	06/30/87	Yanosky, Jr. et al.	370/60	
	4,680,581	08/18/87	Kozlik et al.	340/825.06	
	4,685,056	08/04/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	08/04/87	Horne	380/20	
	4,688,197	08/18/87	Novak et al.	365/230	
	4,688,247	08/18/87	Davidov	380/19	
	4,689,022	08/20/87	Peers et al.	434/307	
	4,689,619	08/25/87	O'Brien, Jr.	340/825.08	
	4,691,351	08/04/87	Hayashi et al.	380/10	
	4,692,817	08/08/87	Theis	360/12	
	4,692,819	09/08/87	Steele	360/72.1	
	4,694,490	09/15/87	Harvey et al.	380/20	
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	4,695,953	09/22/87	Blair et al.	364/410	04/14/86
	4,696,034	09/22/87	Wiedemer	380/16	10/12/84
	4,697,281	09/29/87	O'Sullivan	379/59	03/14/86
	4,701,794	10/20/87	Fröling et al.	358/147	04/12/85
	4,704,725	11/03/87	Harvey et al.	380/48	
	4,707,828	11/17/87	Yamada	370/85	09/10/85
V	4,709,418	11/24/87	Fox et al.	455/612	09/14/83
/AH/	4,710,800	12/01/87	Fearing et al.	358/22	09/16/85

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/AH/	4,710,919	12/01/87	Oliver et al.	370/96	
	4,712,105	12/08/87	Köhler	340/825.69	04/30/85
	4,712,238	12/08/87	Gilhousen et al.	380/20	06/08/84
	4,712,239	12/08/87	Frezza et al.	380/20	06/16/86
	4,718,107	01/05/88	Hayes	455/4	
	4,720,819	01/19/88	Pinkham et al.	365/219	12/30/83
	4,722,526	02/02/88	Tovar et al.	273/1 E	01/20/87
	4,723,302	02/02/88	Fulmer et al.	455/2	
	4,724,491	02/09/88	Lambert	358/310	08/28/84
	4,725,886	02/16/88	Galumbeck et al.	358/147	04/21/83
	4,728,949	03/01/88	Platte et al.	340/825.37	03/23/84
	4,731,679	03/15/88	O'Gwynn et al.	360/73	09/20/84
	4,733,301	03/22/88	Wright, Jr.	358/181	06/26/87
	4,734,907	03/29/88	Turner	370/60	06/06/85
	4,736,422	04/05/88	Mason	380/120	
	4,737,993	04/12/88	DeVilbiss	455/180	01/21/87
	4,739,510	04/19/88	Jeffers et al.	380/10	04/02/87
	4,740,890	04/26/88	William	364/200	12/22/83
	4,745,549	05/17/88	Hashimoto	364/402	06/09/86
	4,745,598	06/07/88	Ulug	370/60	11/27/85
	4,747,081	05/24/88	Heilveil et al.	365/219	12/30/83
	4,747,139	05/24/88	Taaffe	380/44	10/21/86
	4,748,560	05/31/88	Kataoka	364/200	10/11/85
	4,750,036	06/07/88	Martinez	358/147	05/14/86
	4,750,213	06/07/88	Novak	455/67	06/09/86
	4,751,578	06/14/88	Reiter et al.	358/183	05/28/85
	4,751,665	06/14/88	Cappello et al.	364/748	02/24/86
	4,751,732	06/14/88	Kamitake	380/20	
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	4,755,871	07/05/88	Morales-Garza et al.	358/84	11/25/86
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	4,763,317	08/09/88	Lehman et al.	370/60	12/13/85
	4,768,087	08/30/88	Taub et al.	358/84	06/06/85
	4,768,110	08/30/88	Dunlap et al.	360/33.1	05/06/87
	4,768,144	08/30/88	Winter et al.	364/200	10/20/86
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	4,768,229	08/30/88	Benjamin et al.	380/20	
	4,771,456	09/13/88	Martin et al.	380/10	11/06/86
	4,775,935	10/04/88	Yourick	364/401	09/22/86
	4,783,846	11/08/88	Wachob	455/151	06/04/87
	4,785,420	11/15/88	Little	364/513.5	
	4,786,979	11/22/88	Claus et al.	358/335	05/22/86
	4,787,063	11/22/88	Muguet	364/900	10/16/85
/AH/	4,787,085	11/22/88	Suto et al.	370/110.1	05/29/87

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/AH/	4,789,863	12/06/88	Bush	340/825.350	01/13/88
	4,792,849	12/20/88	McCalley et al.	358/86	08/04/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/04/87
	4,796,181	01/03/89	Wiedner	364/406	
	4,802,114	01/31/89	Sogame	364/900	12/15/86
	4,803,725	02/07/89	Horne et al.	380/44	09/14/87
	4,805,014	02/14/89	Sahara et al.	358/86	09/14/87
	4,805,020	02/14/89	Greenberg	358/147	
	4,809,274	02/28/89	Walker et al.	371/37	
	4,812,843	03/14/89	Champion, III et al.	340/905	09/14/87
	4,813,011	03/14/89	Kulakowski et al.	364/900	05/13/85
	4,815,129	03/21/89	Griffin et al.	380/15	01/02/85
	4,816,904	03/28/89	McKenna et al.	358/84	
	4,816,905	03/28/89	Tweedy et al.	358/86	04/30/87
	4,821,032	07/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	04/11/89	Ichikawa et al.	358/183	07/29/87
	4,825,050	04/25/89	Griffith et al.	235/379	09/13/83
	4,827,508	05/02/89	Shear	380/4	10/14/86
	4,833,710	05/23/89	Hirashima	380/24	12/03/87
	4,837,858	06/06/89	Ablay et al.	455/34	04/30/87
	4,841,386	06/20/89	Schiering	360/69	
	4,843,482	06/27/89	Hegendorfer	358/335	
	4,845,491	07/04/89	Fascenda et al.	340/825.44	05/15/87
	4,847,699	07/11/89	Freeman	358/343	07/16/87
	4,847,699	07/11/89	Freeman	358/343	07/16/87
	4,847,700	07/11/89	Freeman	358/343	07/16/87
	4,855,842	08/08/89	Hayes et al.	358/342	
	4,866,706	09/12/89	Christophersen et al.	370/85.7	08/27/87
	4,876,592	10/24/89	Von Kohorn	358/84	05/10/88
	4,879,611	11/07/89	Fukui et al.	360/69	
	4,885,579	12/05/89	Sandbank	340/825.72	
	4,885,775	12/05/89	Lucas	380/10	09/21/84
	4,887,172	12/12/89	Steele	360/73.06	07/16/87
	4,888,796	12/19/89	Olivo, Jr.	379/101	08/31/87
	4,893,248	01/09/90	Pitts et al.	364/464.01	02/06/87
	4,916,539	04/10/90	Galumbeck	358/142	03/14/89
	4,926,255	05/15/90	Von Kohorn	358/84	05/10/88
	4,941,040	07/10/90	Pocock et al.	358/86	02/10/88
	4,969,209	11/06/90	Schwob	455/158	06/29/88
	4,974,252	11/27/90	Osborne	379/92	10/04/88
	4,977,594	12/11/90	Shear	380/4	02/16/89
	4,982,430	01/01/91	Frezza et al.	380/50	
✓	4,993,066	02/12/91	Jenkins	380/16	
/AH/	5,010,571	04/23/91	Katznelson	380/4	09/10/86

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/AH/	5,034,807	07/23/91	Von Kohorn	358/84	10/19/89
	5,036,537	07/30/91	Jeffers et al.	380/20	04/03/87
	5,045,848	09/03/91	Fascenda	340/825.26	09/29/87
	5,050,213	09/17/91	Shear	380/20	08/06/90
	5,057,915	10/15/91	Von Kohorn	358/84	10/25/90
	5,060,140	10/22/91	Brown et al.	364/200	01/16/86
	5,083,271	01/21/92	Thacher et al.	364/411	08/03/88
	5,089,885	02/18/92	Clark	358/66	08/01/88
	5,128,752	07/07/92	Von Kohorn	358/84	10/25/90
	5,140,419	08/18/92	Galumbeck et al.	358/142	12/21/89
	5,144,663	09/01/92	Kudelski et al.	380/16	11/13/90
	5,152,011	09/29/92	Schwob	455/158.5	06/19/90
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	5,163,024	11/10/92	Heiweil et al.	365/219	08/06/90
	5,172,111	12/15/92	Olivo, Jr.	340/825.31	12/18/89
	5,177,604	01/05/93	Martinez	358/86	06/03/88
	5,191,410	03/02/93	McCalley et al.	358/86	02/05/91
	5,195,092	03/16/93	Wilson et al.	370/94.2	08/30/91
	5,208,665	05/04/93	McCalley et al.	358/86	02/15/91
	5,216,552	06/01/93	Dunlap et al.	360/33.1	08/30/88
	5,227,874	07/13/93	Von Kohorn	358/84	10/15/91
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/AH/	Re. 34,034	08/18/92	O'Sullivan	379/59	09/29/89

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/AH/	46,108	02/17/82	EPO	H04N 5/76	X
	49,184	04/07/82	EPO	G09B 7/08	X
	55,167	06/30/82	EPO	G09G 1/16	X
	56,649	07/28/82	EPO	H04N 5/44	
	77,712	04/27/83	EPO	H04N 7/00	X
	78,185	05/04/83	EPO	H04N 7/00	X
	103,438	03/21/84	EPO	H04N 7/10	
	128,481	12/19/84	EPO	H04N 7/00	
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/AH/	206,821	12/30/86	EPO	H04N 7/00	

/AH/	217,308	04/08/87	EPO	H04M 11/00	
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	1,204,190	09/03/70	Great Britain		
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	2,164,229	03/12/86	Great Britain		
	2,167,917	06/04/86	Great Britain		
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	2,516,733	05/05/83	France	H04N 7/00	X
	2,831,014	01/03/85	Germany		X
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	3,039,949	05/06/82	Germany	H04M 3/42	X
	3,112,249	10/07/82	Germany	G09G 1/28	X
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	53-068124	06/17/78	Japan		X
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	55-49084	03/06/86	Japan		X
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	58-209276	12/06/83	Japan		X
	59-160387	09/11/84	Japan	H04N 7/10	X
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	60-61935	04/09/85	Japan	G11B15/02	X
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